

# INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP2004/011015

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C12Q1/00

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C12Q

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, Sequence Search, EMBASE, WPI Data, BIOSIS, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>WO 01/96538 A (BAYER AKTIENGESELLSCHAFT; XIAO, YONGHONG; GEDRICH, RICHARD) 20 December 2001 (2001-12-20) cited in the application the whole document</p> <p style="text-align: center;">----- -/--</p>	1-26

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

### \* Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

Date of the actual completion of the International search

14 March 2005

Date of mailing of the international search report

02.05.2005

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

Pinheiro Vieira, E

# INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP2004/011015

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>KIM D R ET AL: "Cloning and expression of novel mosaic serine proteases with and without a transmembrane domain from human lung&lt;1&gt;"</p> <p>BIOCHIMICA ET BIOPHYSICA ACTA . GENE STRUCTURE AND EXPRESSION, ELSEVIER, AMSTERDAM, NL, vol. 1518, no. 1-2, 19 March 2001 (2001-03-19), pages 204-209, XP004275877</p> <p>ISSN: 0167-4781</p> <p>cited in the application</p> <p>the whole document</p>	1-26
P,X	<p>WO 03/093432 A (CURAGEN CORPORATION)</p> <p>13 November 2003 (2003-11-13)</p> <p>the whole document</p>	1-26

# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/EP2004/011015

## Box II Observations where certain claims were found unsearchable (Continuation of Item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:  
  
Although claim 26 is directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2. ☐ Claims Nos.:  
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this International application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

1-26 (part)

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

## FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

## 1. claims: 1-26(part)

Method of screening for therapeutical agents useful in the treatment of Alzheimer; method for diagnosing Alzheimer, pharmaceutical compositions comprising agents which bind/regulate the activity of a MSP polypeptide for the treatment of Alzheimer; pharmaceutical compositions for the treatment of Alzheimer comprising the MSP polypeptide; method for preparing a pharmaceutical composition useful for the treatment of Alzheimer.

---

## 2. claims: 1-26(part)

Method of screening for therapeutical agents useful in the treatment of hematological diseases; method for diagnosing hematological diseases; pharmaceutical compositions comprising agents which bind/regulate the activity of a MSP polypeptide for the treatment of hematological diseases; pharmaceutical compositions for the treatment of hematological diseases comprising the MSP polypeptide; method for preparing a pharmaceutical composition useful for the treatment of hematological diseases.

---

## 3. claims: 1-26

Method of screening for therapeutical agents useful in the treatment of gastroenterological disorders; method for diagnosing gastroenterological disorders; pharmaceutical compositions comprising agents which bind/regulate the activity of a MSP polypeptide for the treatment of gastroenterological disorders; pharmaceutical compositions for the treatment of gastroenterological disorders comprising the MSP polypeptide; method for preparing a pharmaceutical composition useful for the treatment of gastroenterological disorders.

---

## 4. claims: 1-26(part)

Method of screening for therapeutical agents useful in the treatment of endocrinological disorders; method for diagnosing endocrinological disorders; pharmaceutical compositions comprising agents which bind/regulate the activity of a MSP polypeptide for the treatment of endocrinological disorders; pharmaceutical compositions for the treatment of endocrinological disorders comprising the MSP polypeptide; method for preparing a pharmaceutical composition useful for the treatment of endocrinological disorders.

---

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

## 5. claims: 1-26(part)

Method of screening for therapeutical agents useful in the treatment of cancer; method for diagnosing cancer; pharmaceutical compositions comprising agents which bind/regulate the activity of a MSP polypeptide for the treatment of cancer; pharmaceutical compositions for the treatment of cancer comprising the MSP polypeptide; method for preparing a pharmaceutical composition useful for the treatment of cancer.

---

## 6. claims: 1-26(part)

Method of screening for therapeutical agents useful in the treatment of inflammatory diseases; method for diagnosing inflammatory diseases; pharmaceutical compositions comprising agents which bind/regulate the activity of a MSP polypeptide for the treatment of inflammatory diseases, pharmaceutical compositions for the treatment of inflammatory diseases comprising the MSP polypeptide; method for preparing a pharmaceutical composition useful for the treatment of inflammatory diseases.

---

## 7. claims: 1-26(part)

Method of screening for therapeutical agents useful in the treatment of metabolic diseases; method for diagnosing metabolic diseases; pharmaceutical compositions comprising agents which bind/regulate the activity of a MSP polypeptide for the treatment of metabolic diseases; pharmaceutical compositions for the treatment of metabolic diseases comprising the MSP polypeptide; method for preparing a pharmaceutical composition useful for the treatment of metabolic diseases.

---

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP2004/011015

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 0196538	A	20-12-2001	AU 7636101 A	24-12-2001
			WO 0196538 A2	20-12-2001
			EP 1294903 A2	26-03-2003
			US 2004209327 A1	21-10-2004
			US 2002061850 A1	23-05-2002
-----				
WO 03093432	A	13-11-2003	AU 2003232034 A1	17-11-2003
			CA 2485089 A1	13-11-2003
			WO 03093432 A2	13-11-2003
			AU 2003232457 A1	19-12-2003
			WO 03102144 A2	11-12-2003
			US 2004018199 A1	29-01-2004
			AU 2003228405 A1	20-10-2003
			AU 2003230775 A1	20-10-2003
			CA 2480450 A1	16-10-2003
			CA 2481039 A1	16-10-2003
			WO 03085124 A2	16-10-2003
			WO 03085096 A2	16-10-2003
			US 2004162236 A1	19-08-2004
			AU 2003259704 A1	25-02-2004
			AU 2003304034 A1	01-11-2004
			CA 2495563 A1	19-02-2004
			WO 2004015079 A2	19-02-2004
			WO 2004089282 A2	21-10-2004
			WO 03003984 A2	16-01-2003
			US 2003129613 A1	10-07-2003
-----				